

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13523

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B21D 53/04, B21D 53/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B21D 53/04, B21D 53/06, B21D 53/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 Japanese Utility Model Gazette 1926-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2001, Japanese Registered Utility Model Gazette 1994-2001, Japanese Gazette Containing the Utility Model 1996-2001

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	JP 5-177286 A (SHOWA ALUMINUM Corp.), 1993.07.20, whole document (Family: none)	1-14, 25 26-28 20-24
Y A	EP 704667 A2 (ZEXEL Corp.), 1996.04.03 lines 31-59, column 8, page 5, fig.16 and 17 & JP 7-227631 A, 1995.08.29, paragraph [0048]-[0053], fig.16 and 17 & US 5697433 A & US 5996633 A & KR 217515 B & DE 69514463 T	26-28 20-24
X Y A	JP 10-132479 A (SANYO RADIATOR Corp.), 1998.05.22, paragraph [0003] and [0017]-[0020], fig.4 and 9, (Family: none)	1-14 28 20-24
A	EP 829316 A2 (DENSO Corp.), 1998.03.18 whole document & JP 10-85877 A, 1998.04.07, whole document & US 5875668 A & DE 69701076 T	15-19

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search

04.12.03

Date of mailing of the international search report

24.12.03

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/FR 03/02917

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G01N21/78 G01N33/18 G01N31/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 793 792 A (CENTRAL ELECTRICITY AUTHORITY; HAROLD FREDERICK JAMES SCRASE) 23 April 1958 (1958-04-23) page 1, line 70 - line 76 page 2, line 13 - line 25 page 3, line 25 - line 27 page 3, line 116 - line 121 ----	1
A	US 3 030 192 A (SCHNEIDER JR GEORGE W) 17 April 1962 (1962-04-17) column 1, line 20 - line 21 column 1, line 29 - line 33 column 5, line 59 - line 65 column 6, line 19 - line 36 ----	1
A	US 3 015 544 A (SCHNEIDER JR GEORGE W ET AL) 2 January 1962 (1962-01-02) column 11, line 65 - column 12, line 9 ----- -/-	1

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

23 February 2004

Date of mailing of the international search report

02/03/2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCI/TK 03/02917

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 016, no. 355 (P-1394), 30 July 1992 (1992-07-30) & JP 04 109166 A (JAPAN ORGANO CO LTD; OTHERS: 01), 10 April 1992 (1992-04-10) abstract</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/TK 03/02917

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 793792	A	23-04-1958	NONE	
US 3030192	A	17-04-1962	NONE	
US 3015544	A	02-01-1962	NONE	
JP 04109166	A	10-04-1992	NONE	